

L 20661-66
ACC NR: AP6008813

temperature for several days. The VLID steel was tested immediately after welding failed under an average stress of 30 kg/mm². The same welds stored six days at room temperature failed under an average stress of 120 kg/mm². A similar behavior was observed in the other two superstrength steels. Orig. art. has: 7 figures.

DV 7

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 006/ ATD PRESS: 4223

2/2

Card

S. SIMONIK

Journal of the Iron and
Steel Institute
July 1954
Foundry Practice

Determination of the Dimensions of Directly Fed Runners.
J. Pfibyl and S. Simonik. (Svědectví, 1953, 1, (7), 170-180).
[In Czech]. The problem of the right dimensions of runners
in relation to the size and shape of the casting, the casting
temperature and the dimensions of the shrinkage cavity is
discussed. Nomograms are developed for determining the
size of the runners for various metals from a knowledge of the
shrinkage per unit volume of metal, and the casting tempera-
ture. — P. F.

3

SIMONIK, S.

Risers at higher-than-atmospheric pressure or insulated risers? p. 114,
SLEVARENSTVI (Ministerstvo strojiernstvi a Ministerstvo hutniho
prumyslu a rudnych dolu) Praha, Vol. 3, No. 4, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 4, No. 12, December 1955

SIMONIK, Stanislav

✓ 430* Effect of Feed Rate of Metal in Casting Upon Its Inner Quality. Vliv rychlosti doplňování kovu do odlitku na vnitřní jakost odlitku. (Czech.) Stanislav Šimoník. Slezdrenství, v. 3, no. 9, Sept. 1955, p. 258-260.

Analysis of solidification and feeding mechanism shows that shrinkage is directly related to solidification velocity and can be controlled by correct design. Diagrams. 5 ref.

2d1

SIMONIK, S.

A Contribution to the Calculation of the Contraction Casting
in Casting & Slagoučí. (Problems and Perspectives of
Czechoslovak Metallurgy and Foundry, 1958, 978-331). Methods
of calculation are discussed. The effects of pouring and solidifi-
cation conditions, especially with insulated and exothermic
moulds.

SIMONIK, S,

SLEVARÈNSTVÍ

Vol 5, Nr 7, July, 1957

M. Hedenrik - A. Ljungqvist - J. Kibani: Control of Solidification of Gray Iron Castings with Chills
Control of Solidification of Gray Iron Castings
with Chills

The authors deal with the definition of the sphere of applicability of chills to control the solidification in grey iron castings. According to the results of bleeding tests and of tests with experimental castings the most advantageous chill thickness was recommended with regards to their efficiency and to the workability of castings under chills. The efficiency of chills was determined and it is defined by the relation of the solidification velocity of the metal from the chill and from the sand mould, and thus was determined the maximum admissible size of material accumulation for plate-like castings. The obtained values enable to limit the region of open grains in material accumulation which is impossible to cool. The efficiency of chills decreases with increasing wall thickness of the casting; it decreases also with their repeated use. The efficiency decrease is caused by the diminution of the heat transfer coefficient which is evoked by the oxydation of surface grains of the material of the chill on the contact area chill-casting.

PB

Hrachov, J.; Dubalik, M.; Lásák, J.

Control of solidification of steel castings with chills. (race n. 1.
(ZAVOD pro VYKNUVACI, Vol. 5, No. 3, Aug 1957, Praha, Czechoslovakia)

SD: Monthly List of East European Accessions (EEAL) EC, Vol. 6, No. 12, Dec 1957. Uncl.

SIMONIK, Stanislav

Increasing the yield of liquid metal with rational risering.
Slevarenstvi 9 no.11:457-459 N '61.

1. Stredni vyzkumy ustav materialu a technologie, slevarensky vyzkum,
Brno.

(Founding)

SIMONIK, Stanislav

New methods of examining the solidification by using stearin.
Slevarenstvi 10 no.7:245-249 J1 '62.

1. Statni vyzkumnny ustav materialu a technologie, Slevarensky
vyzkum, Brno.

SUSTEK, Alois; SIMONIK, Stanislav

Evaluation of steel from the viewpoint of its casting properties.
Slevarenstvi 10 no.11:455-458 N '62.

1. Statni vyzkumnny ustav materialu a technologie, slovarensky vyzkum,
Brno.

SIMONIK, Stanislav, inz.

Foundry properties of steel for castings. Slevarenstvi 13 no.4:
172 Ap '65.

DURISKA, Jan; SIMONIKOVA, Dagmar

Microbiological survey of cotton textile factories. Prac. lek. 16
no.5:204-207 Jl '64.

1. Otorinolaryngologicke oddelenie nemocnice s poliklinikou v
Ruzomberku (veduci dr. J. Duriska) Okreani hygiencko-epidemio-
logicke stanice v Ruzomberku (veduci dr. D. Simonikova).

136867-46 EIT(m)/EIP(k)/EIP(t)/ETI 1974c) 4/16
ACC NR: AP6023618 SOURCE CODE: UR/0136/66/000/007/0083/0085

AUTHOR: Zaboronok, G. F.; Milova, V. B.; Polyakova, M. D.;
Simonishvili, T. V.

ORG: none

TITLE: Effect of ultrasonic vibration on the structure of electron-
beam melted molybdenum

SOURCE: Tsvetnyye metally, no. 7, 1966, 83-85

TOPIC TAGS: molybdenum, molybdenum melting, electron beam melting,
ultrasound application, ultrasound effect, molybdenum property,
CRYSTALLIZATION

ABSTRACT: The effect of subsonic and ultrasonic vibrations on the
crystallization of molybdenum, electron-beam melted in a $5 \cdot 10^{-4}$ mm Hg
vacuum, has been investigated. Subsonic vibrations at a frequency of
1000 cycle/min reduced the grain size from 3—5 mm to 2—3 mm. Ultra-
sonic vibrations with a frequency of 2—18 kilocycle substantially
reduced the grain size in the transverse direction but had very little
effect on the grain size in the longitudinal direction, leaving the
columnar structure unchanged. The Brinell hardness of molybdenum
melted with ultrasound amounted to 153—156 kg/mm², i.e., was of the
same order as that of molybdenum melted without ultrasound. Preforged

Card 1/3

UDC: 669.28:620.18

L 36867-66

ACC NR: AP6023618

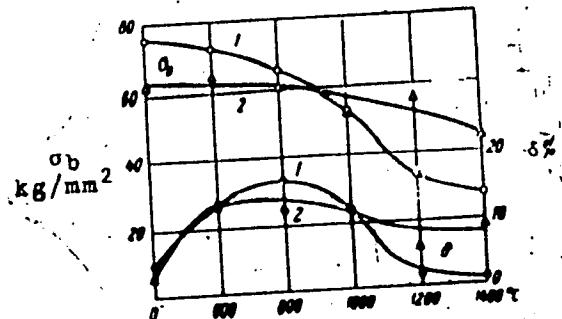


Fig. 1. Effect of annealing temperature on strength (σ_b) and elongation (δ) of molybdenum electron-beam melted without (1) or with (2) ultrasound

ingots were rolled into sheets 1 mm thick. The respective tensile strength and elongation of cold-rolled sheets melted with ultrasound were 75.0 kg/mm² and 4.8% compared to 62.1 kg/mm² and 2.8% for conventionally electron-beam melted metal. Vacuum annealing at 600–1400°C for 1 hr greatly affected the strength and ductility of conventionally melted metal, but affected much less those of metal melted with the application of ultrasound (see Fig. 1). Further research should include the application of 1) ultrasonic generators and transducers which would ensure the maximum amplitude in crystallization zone, 2) ultra-

Card 2/3

L 66867-46

ACC NR: AP6023618

sonic waves in the direction perpendicular to the ingot axis, 3) ultrasonic waves propagating in two mutually perpendicular directions, and 4) ultrasound combined with modifiers. Orig. art. has: 5 figures and 1 table.

[NCL]

SUB CODE: 13, 11/ SUBM DATE: none/ ATD PRESS: 5040

Card 3/3

SIMONIN, S.I., inzhener.

Using new geodetic instruments. Avt.dor. 20 no.6:18-20 Je '57.
(MIRA 10:10)
(Roads--Surveying--Instruments)

2nd Oct. 3rd
S.M., S.C. "Survey of motor vehicle in do." i.e., 1959.
Survey of motor vehicle in do. (i.e., 1959).
Survey of motor vehicle in do. (i.e., 1959).

SIMONIN, S.I., inzh.

Precision is essential in road levelling operations during
surveying. Avt.dor. 21 no.6:17-18 Je '58. (MIRA 12:10)
(Roads--Surveying)

SIMONIN, S.I., inzh.

Efficient methods for leveling in route surveys. Avt.dor. 22
no. 7:26-27 J1 '59. (MIRA 12:9)
(Roads--Surveying)

SIMONIN, Sergey Ivanovich; SHULEYKIN, A.S., dots., retsenzent;
SOLOV'YEV, A.D., dots., retsenzent; CHVANOV, V.G., red.;
SHAMAROVA, T.A., red. izd-va; SUNGUROV, V.V., tekhn. red.

[Topographical engineering drawing] Inzhenerno-topograficheskoe
cherchenie. n.p. Geodezizdat, 1962. 121 p. (MIRA 16:1)
(Mechanical drawing)

SIMONIK, S.I.

New methods of leveling. Avt.dor. 26 no.9:26 S '63.
(MIRA 16:10)

SIMONISHVILI, A.Sh.

Comparative evaluation of the anesthetizing effect of novocaine
and lignocaine. Soob. AN Gruz. SSR 23 no.5:627-629 N '59.
(MIRA 13:6)
1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno
akademikom K.D. Bristavi.
(NOVOCAINE) (ACETOXYLIDIDE)

SIMONISHVILI, A.Sh.

Organoid teratomas. Pediatrilia 37 no.11:73-74 N 159.

(MIRA 13:3)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy M.P. Senatova)
bol'nitsy imeni F.E. Dzerzhinskogo (glavnnyy vrach A.N. Kurdynashova).
(TERATOID TUMOR in inf. & child.)
(SACROCOCCYGEAL REGION neoplasms)

TKESHELASHVILI, L.M.; SIMONISHVILI, A.Sh.

Internal fixation ~~in fractures~~ during childhood. Soob. AN
Gruz. SSR 25 no. 3:357-362 S '60. (MIRA 14:1)

1. Tbilisskiy gosudarstvennyy institut usovershenstvovaniya
vrachey. Predstavлено академиком K.D. Eristavi.
(INTERNAL FIXATION IN FRACTURES)

S/251/62/029/006/005/005
D204/D307

AUTHORS: Tavadze, F.N., Academician and Simonishvili, T.V.

TITLE: A study of the effects of Ti, Al and W on the equilibrium and refractoriness of alloys based on the gamma solution of the system Fe-Cr-Ni-Mn-Nb-V-Si

PERIODICAL: Akademiya nauk Gruzinskoy SSR. Soobshcheniya, v. 29, no. 6, 1962, 703-708

TEXT: The present article is a continuation of earlier work (DAN AN SSSR, v. 145, no. 1, 1962, 112). The percentage composition of the basic alloy was Fe 58.5, Cr 15, Ni 15, Mn 10, Nb 0.5, V 0.5, Si 0.5, and C < 0.03. Ti, Al and W were added individually or in pairs. The limiting solubilities in the basic alloy were found to be 3% for Ti, 4% for Al, and 6% for W. When added in excess of these limits, the above elements gave rise to compounds of type Fe_2Ti , $FeAl$, and Fe_2W . The required phase analyses were directed by K.A. Doliashvili. Within the limits of solubility, hardness and microhardness were increased, particularly by Al, W + Al, and Ti + Al.

Card 1/2

A study of the effects ...

S/251/62/029/006/005/005
D204/D307

Resistivity was similarly affected, especially by W + Al. The refractoriness was lowered by combir d additions of Ti and .i, slightly increased by Ti and Al (added separately or together in amounts close to the solubility limits) and considerably raised by W and by .i + Al (close to the solubility limits). The combination W + Al is thus to be preferred. After exceeding the solubility limits, further additions increased the hardness and lowered the refractoriness. The microhardness remained constant and the resistivity changed in a manner depending on the excess phase formed. Particularly pronounced effects were obtained by adding the alloying elements in pairs.

Study of the constructed part of the equilibrium diagram [Abstractor's note: Apparently given in the earlier paper] allowed a composition to be determined which was optimal w.r.t. refractoriness and technological properties. This alloy contained relatively little Ni and no Co or Mo, but was as refractory as some austenitic steels containing the latter two metals and rich in nickel. There is 1 table.

ASSOCIATION: Akademiya nauk Gruzinskoy SSR, Institut metallurgii, Tbilisi (Academy of Sciences, GSSR, Institute of Metallurgy, Tbilisi)

SUBMITTED: October 26, 1962

Card 2/2

ACC NR: AP7002439

(A)

SOURCE CODE: UR/0219/66/000/012/0049/0050

AUTHOR: Zaboronok, G. F.; Milova, V. B.; Polyakova, M. D.; Simonishvili, T. V.

ORG: none

TITLE: Some properties of unalloyed polycrystalline molybdenum

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 12, 1966, 49-50

TOPIC TAGS: molybdenum, polycrystal, arc furnace, tensile strength, plasticity, annealing, embrittlement

ABSTRACT: The material was remelted without deoxidation in a JEVM-03 electron-beam furnace, and cast into ingots 25 mm in diameter and up to 300 mm high. The following melting conditions were used: the feed rate of the rod was 10-20 mm/min, the melting rate was 23.7-47.4 g/min, and the pressure was $2 \cdot 10^{-4}$ - $7 \cdot 10^{-5}$ mm Hg. Impurity contents are given for the original and remelted molybdenum. After remelting the O₂ content decreased from $6 \cdot 10^{-3}$ wt % to $4 \cdot 10^{-4}$ wt %. The ingots were hot worked into rods and billets, cold worked, and recrystallized by annealing in a vacuum for 10 hr at 1000°C. Results are given on the hardness, microhardness, electrical resistivity, elastic modulus, and other elastic properties determined by the resonance method. The ultimate tensile strength and ductility are given as functions of annealing temperature. Annealing was done at a residual pressure which did not exceed $1 \cdot 10^{-4}$ mm Hg.

UDC: 669.28:620.17

Card 1/2

ACC NR: AP7002439

At a deformation rate of 3 mm/min, the ultimate strength decreased as a function of annealing temperature, the greatest decrease occurring at 1000-1200°C. The relative elongation went through a maximum (16.4%) after annealing at 800°C. Orig. art. has: 1 figure, 2 tables.

SUB CODE: 11/ SUBM DATE: none

Card 2/2

SIMONISHVILI, Sh.

Georgian S.S.R. Nauka i pered. op. v sel'khoz. 7 no.11:18-19 N '57.
(MLRA 10:11)

1. Glavnnyy metodist pavil'ona "Gruzinskaya SSR" Vsesoyuznoy sel'sko-
khozyaystvennoy vystavki.

(Georgia--Agriculture)

SIMONISHVILI, S.A.

Control of footwear quality. Leg.prom. 15 no.12:13 D '55.
(MLRA 9:5)

1. Nachal'nik Otdela tekhnicheskogo kontrolya Tbilisskoy fabriki
No. 2 imeni V.M. Molotova.
(Shoe industry--Quality control)

SIMONISHVILI, Sh.A.; CHKHIKVISHVILI, I.I., red.; BASINOV, A., tekhn.
red.

[Advanced practices of the participants in the All-Union Agri-cultural Exhibition represented at the Pavilion of the Georgian S.S.R.] Perekovoi opyt uchastnikov Vsesoyuznoi sel'skokhoziaistvennoi vystavki, predstavlennykh v pavil'one Gruzinskoi SSR. Tbilisi, Izd-vo "Zaria Vostoka," 1958. 84 p. (MIRA 15:12)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka.
(Moscow--Agricultural exhibitions) (Georgia--Agriculture)

TAVADZE, F.N., akademik; PRYAKHINA, L.I.; SIMONISHVILI, T.V.

Equilibrium of alloys based on γ -solid solution in the system
Fe - Cr - Ni - Mn - Nb - V - Si. Dokl.AN SSSR 145 no.1:112-114
Jl '62. (MIRA 15:7)

1. Institut metallurgii imeni A.A.Baykova. 2. Akademiya nauk
Gruzinskoy SSR (for Tavadze).
(Iron alloys) (Phase rule and equilibrium)

TAVADZE, F.N., akademik; SIMONISHVILI, T.V.

Investigating the effect of Ti, Al, and W on the equilibrium and
heat resistance of alloys on the basis of a gamma-solid solution
in the system Fe - Cr - Ni - Mn - Nb - V - S. Soob. AN Gruz. SSR
(MIRA 18:3)
no.5:703-708 D '62.

1. Institut metallurgii AN GruzSSR, Tbilisi. 2. Akademiya nauk
Gruzinской ССР (for Tavadze).

TAVADZE, F.N.; PRYAKHINA, L.I.; SIMONISHVILI, T.V.

Investigating the effect of tungsten and aluminum on the structure and properties of an austenitic solid solution in the system iron - chromium - nickel - manganese - niobium - vanadium - silicon. Trudy Inst. met. no.12:125-131 '63.
(MIRA 16:6)

Systems(Chemistry))
(Tungsten)
(Aluminum)

SIMONITI, J.; MASLE,S.; BURNIK,J.; RAISP,I.; ZUPANCIC, S.

Fibrillation cardiopathies in ligo-sympatomatic hyperthyroidism.
Zdrav. vestn. 33 no.4:117-118 '64

l. Interni oddelek splošne bolnišnice v Slovenjem Gradcu (Pred-
stojnik: dr.med. dr. Ivo Raisp).

KAUFMAN, A.S., otv. red.; SIMONIYA, N.A., otv. red.; KASTEL'SKAYA, Z.D.,
red. izd-va; TSVETKOVA, S.V., tekhn. red.

[Agrarian and peasant problems in southeastern Asia] Agrarno-
krest'ianskii vopros v stranakh Iugo-Vostochnoi Azii. Moskva,
Izd-vo vostochnoi lit-ry, 1961. 161 p. (MIRA 14:9)

1. Akademiya nauk SSSR. Institut narodov Azii.
(Asia, Southeastern - Land tenure)

ALEKSANDROV, Yuriy Georgiyevich; SIMONIYA, N.A., otv. red.;
GARMSEN, O.M., red.

[Agricultural policy of the Republic of Indonesia] Poli-
tika respublik Indonezii v sel'skom khoziaistve. Moskva,
Izd-vo "Nauka," 1964. 180 p. (MIRA 17:10)

SIMONIYA, Nodari Aleksandrovich; POPOV, K.M., otv. red.; GARMSEN,
O.M., red.izd-va; MIKHLINA, L.T., tekhn. red.

["The island of a great river."] Ostrov bol'shoi reki. Moskva,
Izd-vo vostochnoi lit-ry, 1962. 156 p. (MIRA 15:12)
(Borneo)

715. Биоруклад Тимур Баатар. 724. Плакаты Ильинский Иван
Алиев. Академик Ильин Иван Алиев - пионер гидро-
аэродинамики. Академик Ильин Иван Алиев - пионер гидро-
аэродинамики. Физика в аэrodinamike v akademika Ilyina.
данный труд входит в академик Ilyin. 1955, v. 54, 1954.
107 с. (Пр. ТГУ, т. 46, 1953; т. 54, 1954).
Заг. 1956, 182.
716. Басова Надежда Петровна.
Родственница Юрия Анненкова и Ге-
оргия Бонч-Бруевича. 1957.
Заг. 1951, 510.
717. Гаваладзе Николай Авер-
севич. Президентская комиссия по ге-
нерализации места в городе пребыва-
ния Кузнецова Юрия. 1953, 66 с.
Заг. 1953, 2012.
718. Гавазза Константина Але-
ксандровна. Президентская комиссия
Александра Константина Гаваззы. 1957. 893 с.
Заг. 1957, 145.
719. Гаврилова Татьяна Георги-
евна. Оправданная Задания Амбаско-
совские и некоторые антираби-
зисные упражнения. 1954, 111 с.
Заг. 1954, 2711.
720. Гирштадт Александра Иосо-
ва. Од Задачи практического метода ис-
следования природных явлений в теории
управления. 1937.
721. Гуцуй Шота Петрович.
О героях труда Абакан Сибирь. 1955,
56 с. (Сугасин, тираж неизвестен.)
- Заг. 1956, 74.
722. Магнуссон Лильян Геор-
гина. Некоторые основные разве-
дки задач математической физики для
конкурса студентов гимназий. 1939, 68 с.
Заг. 1939, 230.
723. Медведевская Надежда Ге-
оргиевна. О практической решаемости
аэродинамического управления гидро-
автомобилем. Ученые проработки изобрета-
телей в сфере авт. мореплавства и пр.
издание (Пр. ТГУ, краткое, т. 4
1938).
- Заг. 1938, 175.
724. Президентская комиссия по ге-
оргии Бонч-Бруевича. 1955, 157 с.
Заг. 1956, 103.
725. Третьяков Галин Николаев-
ич. О нейтронном рассеянии геодес-
тических изотопов. Применимость промышленного прес-
тавления. 1954, 105 с. (Бюллетень изобретений.
т. 14, Сочин. АН СССР, т. 15, № 10
Заг. 1954, 27 5.
726. Чалашин Григорий Яко-
влевич. Конструирование спор-
тивных автомобилей. К вопросам конструирования спор-
тивных автомобилей. Участник в соревно-
ваниях автомобилистов. 1957, 107 с. (Пр. ТГУ, краткое, неиз-
вестно.)
727. Чаплыгин Зина Исаева
Ольга Романовна. Задания Карбышевой
Инессии Григорьевны Физическая компенсация
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изучением вопросов физики компенсации. Гарн. 1939 (Академ. ин-
ститут). Заг. 1939 (Академ. ин-
ститут). Изд. АН Амур. ССР, 1939.
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Ольга Романовна. Задания Карбышевой
Инессии Григорьевны Физическая компенсация
изучением вопросов физики компенсации.
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ститут). Заг. 1939 (Академ. ин-
ститут). Изд. АН Амур. ССР, 1939.
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на. Некоторые вопросы истории гидравлики.
на изобретательскую премию. 1942.
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730. Холост Александар Рудер-
ман. Опытные данные по измерению
давления в гидравлических флюзах для
турбинных флотиков. III по ряду. Б.
н. 6, р. 52 с.
- Заг. 1949, 256.
731. Чудаков Михаил Никола-
евич. Опытные данные о давле-
нии в гидравлических флюзах для
турбинных флотиков. II по ряду. Б.
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института с Уголовной полицией
и Академии наук СССР. 1954, 75 с.
Заг. 1954, 296.

Dissertation for degree of
Candidate International Sci.

Def. at
Tbilisi State U.

SIMONIYA, V. T.

Simoniya, V. T. -- "A Representation of Semi-Prime Lee Algebras with
Dimetric Maximal Soluble Sub-Algebras." Tbilisi State U imeni I. V. Stalin.
Tbilisi, 1956. (Dissertation for the Degree of Candidate in Physicomathematical
Sciences).

Sc: Knizhnaya Letoos', No. 11, 1950, pp 103-114

SIMONIYA, V.T.

Representations of simple Lie algebras by two-dimensional maximal
solvable subalgebras. Siib.AN Gruz.SSR 17 no.5:393-400 '56.
(MIR 9:9)
1.Stalinirskiy gosudarstvennyy pedagogicheskiy institut. Predstav-
leno akademikom N.I.Muskhelishvili.
(Algebra, Abstract)

SIMONIYA, V.T.

Representations of Lie semisimple algebras of rank 2. Trudy Mat. inst.
AN Gruz. SSR 24:223-407 '57. (MIR 11:3)
(Algebra, Abstract)

SIMONIYA, V.T.

First basic theorem in the theory of vector invariants of a special
Lie group G_2 . Soob.AN Gruz. SSR 24 no.6:641-642 Je '60.
(MIRA 13:9)

1. Stalinirskiy gosudarstvennyy pedagogicheskiy institut.
(Groups, Theory of) (Invariants)

TEDEYEV, S.A.; SIMONIYA, V.T., red.; BAYMATOV, P.S., tekhn. red.

[Integral transformations of functions of two variables]
Integral'nye preobrazovaniia funktsii dvukh peremennykh.
TSkhinvali, Tskhinval'skii gos. pedagog. in-t, 1962. 46 p.
(MIRA 17:4)

HIL'YEV, A.S.; A.G. YU, V.P., mat.

[Some problems related to the Laplace transformation]
Nekotorye voprosy, sviazannye s preobrazovaniem Laplasa.
Tbilisi, IUGo-Svetinskii Gos. pedagog. in-t, 1962. 9 p.
(NKA 17:10)

AKHALADZE, G.L.; SIMONIYA, Z.A.

Case of Treitz's hernia. Khirurgia 35 no.3:104 Mr '59.
(MIREA 12:8)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof.
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PA 6/27/73

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May/Jun 48

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Lib, Inst of Zool, Moscow State U imeni M. V.
Lomonosov, 38½ pp

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SIMONOV, A., inzh.

Mesh-reinforced concrete is a modern material. Stroitel' no.11:
22, 23, 4 of cover N '61.
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460 P. Illus., Tables.

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SO: N/5

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8 no.10:E-9, 3 of cover 0 '62. (MIRA 15:11)
(Roofing, Concrete)

SIMONOV, A., dotsent

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My '62.

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(MIRA 15:5)

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(Photography. Exposure)

ZHEBIN, A.I.; BALINCHENKO, I.I.; KARAGODIN, L.N., kand.tekhn.nauk;
SIMONOV, A.A., inzh.

Article "Safety measures in baring coal intercalation." Bezop.
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1. Pomoshchnik glavnogo inzh. shakhty "Kommunist-Novaya" tresta
Oktyabr'ugol' (for Zhebin). 2. Nachal'nik opornogo punkta Ma-
keyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti
rabot v gornoj promyshlennosti pri shakte "Kommunist-Novaya"
tresta Oktyabr'ugol' (for Balinchenko). 3. Makeyevskiy nauchno-
issledovatel'skiy institut po bezopasnosti rabot v gornoj pro-
myshlennosti (for Karagodin, Simonov).
(Coal mines and mining—Safety measures)
(Shchukin, V.R.)

ACC NR: AR6036309

SOURCE CODE: UR/0273/66/000/009/0030/0031

AUTHOR: Simonov, A. A.

TITLE: Effect of a turbosupercharger on the capacity and economy characteristics of a diesel tractor

SOURCE: Ref. zh. Dvigateli vnutrennogo sgoraniya, Abs. 9. 39. 205

REF SOURCE: Tr. Kirovskogo s.-kh. in-ta, v. 18, no. 32, 1966, 123-132

TOPIC TAGS: tractor, diesel engine, turbosupercharger

ABSTRACT: Tests of a SMD-14 four-cylinder diesel engine were conducted to determine the effect of turbosupercharger boosting on the capacity and economy characteristics. The diesel engine has an output rating of 75 hp at $n = 1700$ rpm, $S/D = 140/120$ mm, and $e=17$. Combined analysis of indices and efficiency parameters shows it is sound practice to boost with supercharge a SMD-14 series produced diesel with preset phases of gas distribution and fuel system to $N_e = 90--95$ hp. Further boosting will lead to deterioration of these characteristics. [Translation of abstract] [NT]

SUB CODE: 21/

UDC: 621. 436. 056

Card 1/1

USSR / Cultivated Plants. Fruits, Berries.

M-7

Abs Jour : Rof Zhur - Biologiya, No 13, 1958, No. 58738

Author : Sukhachov, A. D.; Simonov, A. D.
Inst : Kuybyshov Agricultural Institute
Title : Cultivation of Annual Plants Without Thorn

Orig Pub : Izv. Kuybyshovsk. s.-kh. in-ta, 1957, 12, 141-143

Abstract : An experiment on cultivation of seedlings without thorn was carried out in the Kuybyshov Agricultural Institute during 1952-1954. The following varieties grafted on the wilding of the Chinese prune-leaved apple tree were studied: Papirovka, Grushovka revol'skaya, Anis alyy, Korichnoye polosatoye, Borovinka. Annual trees without thorn grew vertically and did not need binding. To obtain cultivation buds the cutting must be effected as soon as possible. Cultivation of annual plants without thorn does almost not require any removal

Card 1/2

USSR / Cultivated Plants. Fruits, Berries.

M-7

Abs Jour : Rof Zhur - Biologiya, No 13, 1958, No. 58738

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of wild brush. No breaks from wind are observed. The average height and the total of lateral growths were greater in annual plants without thorn (with the exception of the Borovinka variety). The yield of annual plants was greater in plants with thorn in the majority of varieties: Anis alyy (93 to 58.5%) and Papirovka (94 to 70.8%). In the Borovinka variety a contrary phenomenon was observed (74.3 to 81.3%). In variants without thorn cultivation buds started to grow earlier and were the first subjected to the attack by pests. Cultivation of annual plants without thorn requires a high degree of agricultural engineering. -- E. V. Kolesnikov

Card 2/2

ACHERKAN, N.S., doktor tekhnicheskikh nauk, professor, glavnyy redaktor;
ANTSIFEROV, M.S., kandidat fiziko-matematicheskikh nauk; ASTAKHOV, K.V.,
professor; VUKALOVICH, M.P., professor, doktor tekhnicheskikh nauk;
KORELIN, A.I., kandidat tekhnicheskikh nauk; KRIPETS, E.S., inzhener;
LAZAREV, L.P., kandidat tekhnicheskikh nauk; MAZYRIN, I.V., inzhener;
MATYUKHIN, V.M., kandidat tekhnicheskikh nauk; NIKITIN, N.N., kandidat
fiziko-matematicheskikh nauk; PANICHKIN, I.A., kandidat tekhnicheskikh
nauk; PETUKHOV, B.S., kandidat tekhnicheskikh nauk; PODVIDZ, L.G.,
kandidat tekhnicheskikh nauk; SIMONOV, A.L., inzhener; SMIRYAGIN, A.P.,
kandidat tekhnicheskikh nauk; YAYNZILBER, E.M., professor, doktor
tekhnicheskikh nauk; KHALIZEV, G.P., kandidat tekhnicheskikh nauk;
YAN'SHIN, B.I., kandidat tekhnicheskikh nauk; MARKUS, M.Ye., inzhener,
redaktor; KARGANOV, V.G., redaktor graficheskikh materialov, inzhener;
SOKOLOVA, T.F., tekhnicheskiy redaktor.

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(Machinery--Construction) (Mechanical engineering)

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ZHUKHOVITSKIY, B.Ya., dots., kand. tekhn. nauk, red.; BULGAKOV,
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1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
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(Transportation--Costs)

SP-104, A. I.

"The Hydrological Currents of the Aral Sea and Circulation of the Water of the Aral Sea,"
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Up to the present, it has been assumed that the cause of the anti-cyclone circulation of the waters of the Aral Sea is the runoff of the Amu-Darya which creates an accumulation on the surface of the sea. Analysis of the wind conditions shows that in the Aral the wind currents in the vicinity of the sea are directed along the large axis of the basin. One of the theoretical equations of V. L. Shtokman (Zhurnal, No. 4, 1953, Part II) makes it possible to clarify for this case the influence of the bottom on the formation of currents. It turns out that in the case of the Aral, the wind which originates both under the influence of the water in the sea, the velocity of the horizontal circulation clockwise, i.e., anticyclone type, is the relief of the bottom of the Aral Sea. The physical significance of the influence of the relief of the bottom on the structure of the currents evidently consists in the fact that equal energy of the wind is imparted to unequal columns of water, and this leads to an inequality of the vertical gradients of velocity for one and the other depths. In the region of the delta of the Amu-Darya the resulting winds possess a northward direction, which evidently is the cause of the rotation of the fresh waters of the Amu-Darya toward the west in the process of their spreading out over the surface of the sea. (Zhurnal, No. 4, 1953) 34: Sum. No. 713, 9 Nov 55

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(Military command of the Moldavia defense in the Moldavian
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SIMONOV, A.I., otv. red.; MINENKO, V.M., red.

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Simonov, A. I.

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✓ Neotocite from the Male-Sed'nikovsk deposit of rhodochrosite in the Central Urals. A. I. Simonov. Trudy Geolog. Inst., Akad. Nauk SSSR, Otdel. Mineralog. No. 20, Mineralog. Sbornik No. 2, 140-3 (1953).—Neotocite, a hydrous silicate of Mn contg. Mg, Fe, and Ca, has variable phys. properties. Samples were brown, liver-brown, and black, with hardness 3¹/4 and sp. gr. 2.54-2.80. Neotocite is optically amorphous, weakly anisotropic, or cryptocryst. The mineral dissolves completely in concd. HCl, with sepn. of cryst. silice. Spectral analyses of neotocite showed strong lines for Mn, Mg, and Si; av. lines for Al; weak lines for Ca; and trace lines for Fe, Pb, Cu, P, and Sn. The formula may be written as: 1.0(Mn, Mg, Ca)0.99 SiO₄.1.04 H₂O. Thermal analysis of neotocite showed that water was present in weakly bound state and sepd. gradually from 90 to 250°. The thermal curve showed a max. endothermic effect at 150°, and in addn. an exothermic effect with max. at 710°, which is as yet not explained. Neotocite is a supergene mineral forming the hydration zone of the deposit by deposition from colloidal, almost neutral or slightly alk. aq. solns.

Gladys S. Macy

DC

SIMONOV, A.I.; YUMIKOV, B.A.

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(Central Urals). Trudy Gor.-geol. inst. UFAN SSSR no. 32:197-207
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191 '59. (MIRA 14:2)
(Magnitogorsk region--Pseudowavellite)

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or their nucleus substituted derive, are made to act, in the presence of substances able
to split off HCl, on 3-nitro-4-chlorobenzenearsonic acid. The nitro groups obtained
are reduced to amines in the usual manner.